



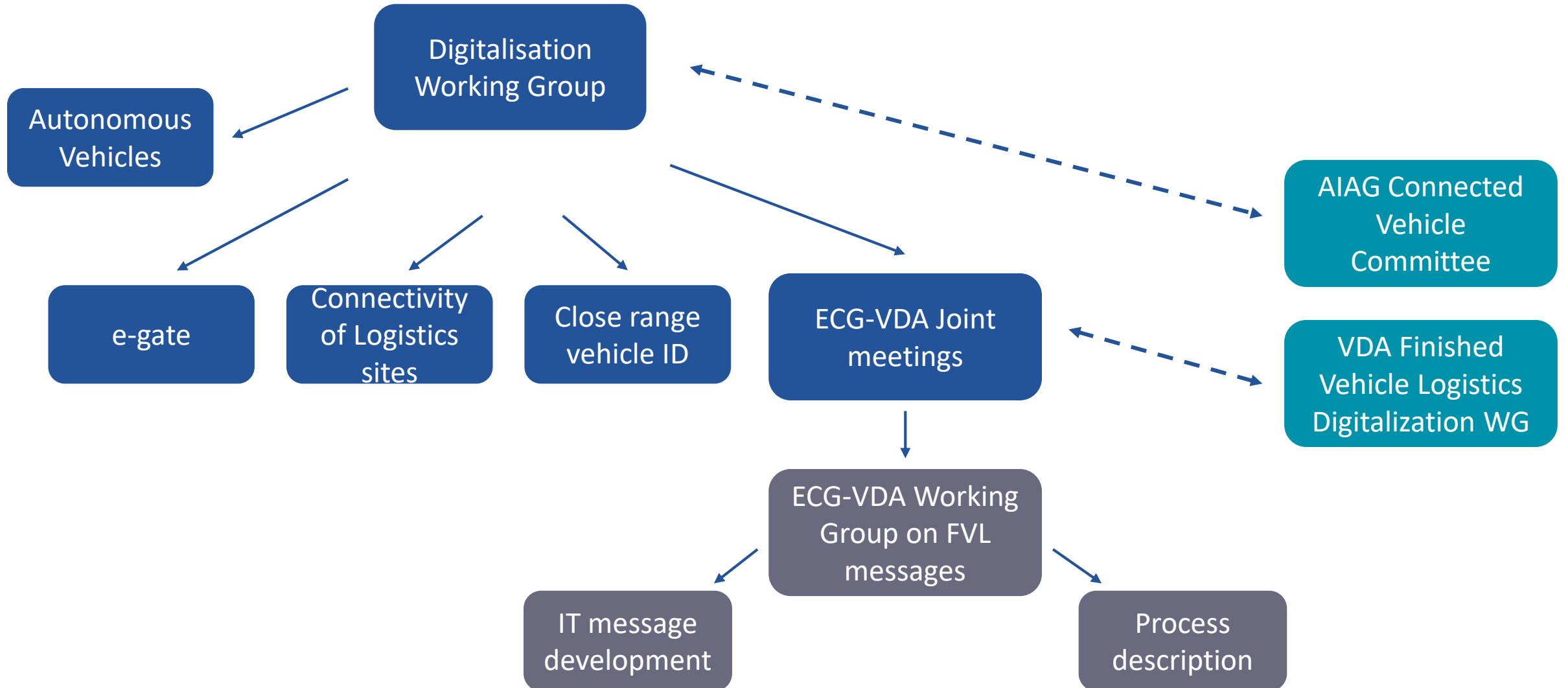
# since 2007 Digitalisation

Michael Bünning

Hervé Moulin



# Digitalisation WG (DWG) structure



# ECG-VDA Joint Project on digitalisation of Finished Vehicle Logistics

ECG/VDA/ODETTE recommendation for  
standardized IT messages for the complete FVL  
supply chain



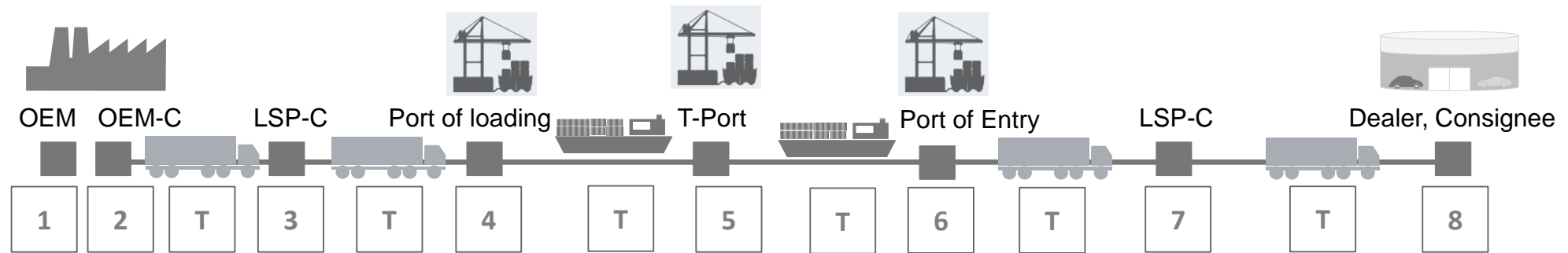
# Project with the VDA & Odette

- Joint project with the VDA & Odette started in 2017
- Focus on Telematics use-cases (2018, phase I) and FVL message development (2019-2020, phase II)
- Members of the project:
  - Associations: ECG, Odette, VDA
  - LSPs: ECG members
  - OEMs: Non-VDA OEMs & VDA OEMs
  - IT companies



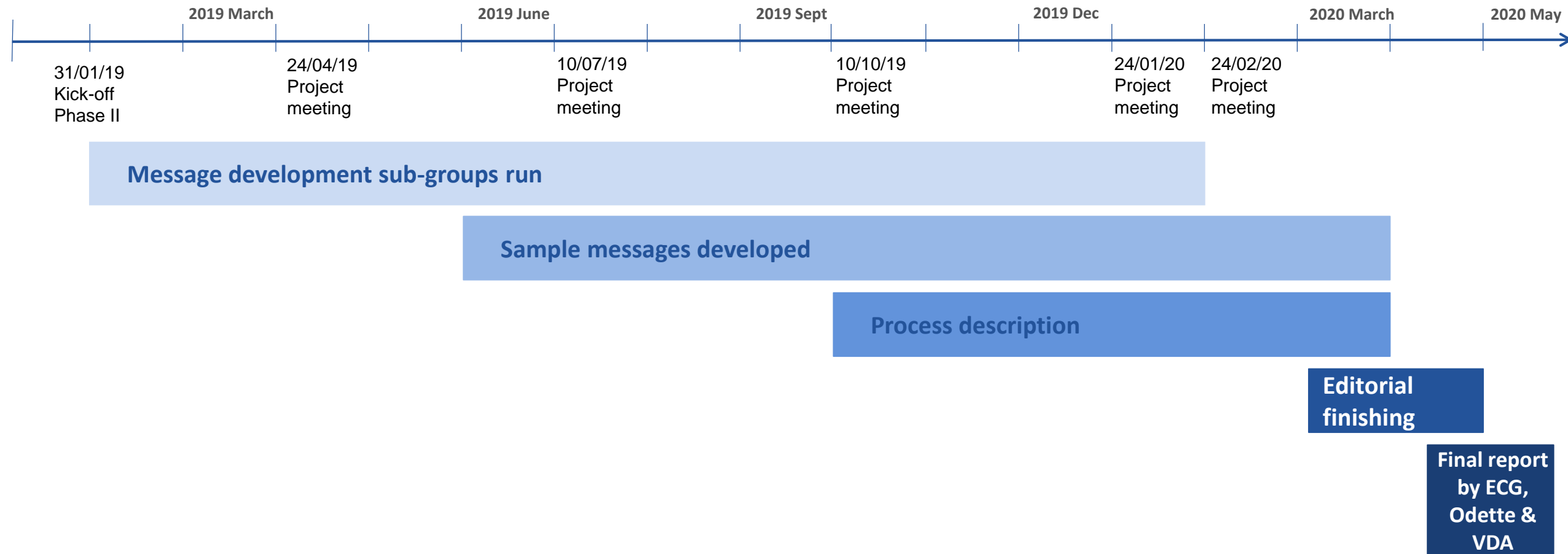
# Project with the VDA & Odette

- Purpose was to develop the “digital twin” of the business processes



- The jointly developed document contains
  - Process description
  - Message templates in Edifact and XML formats
  - Sample messages

# How we got here? – Timeline of phase II



# Project with the VDA & Odette

- It's the first time OEMs and LSPs are agreeing on IT standards at such a wide cross-business level!
- The recommendation for messages in the FVL chain will soon be published by Odette, supported by ECG and the VDA
- All 3 organisations will promote the joint document in the future
- Amendments and further improvements will also be handled jointly



# Project with the VDA & Odette

- **The co-operation will not stop now!**
- Next meeting in Berlin in July (?)
  - Agreement on how to best promote the joint document
  - Discussion on next joint topics between ECG, Odette & VDA





# We thank the efforts of our partners and members



# Autonomous Vehicles

TRUCK



SHIP



COMPOUND



RAIL



BARGE



# Autonomous Vehicles

- Established in October 2019
- Co-chairs:
  - Paul Steininger (Hödlmayr)
  - Ulrich Kick (BMW)
- Webinars every 5-6 weeks
- On average 13-14 attendees, from LSPs and OEMs alike

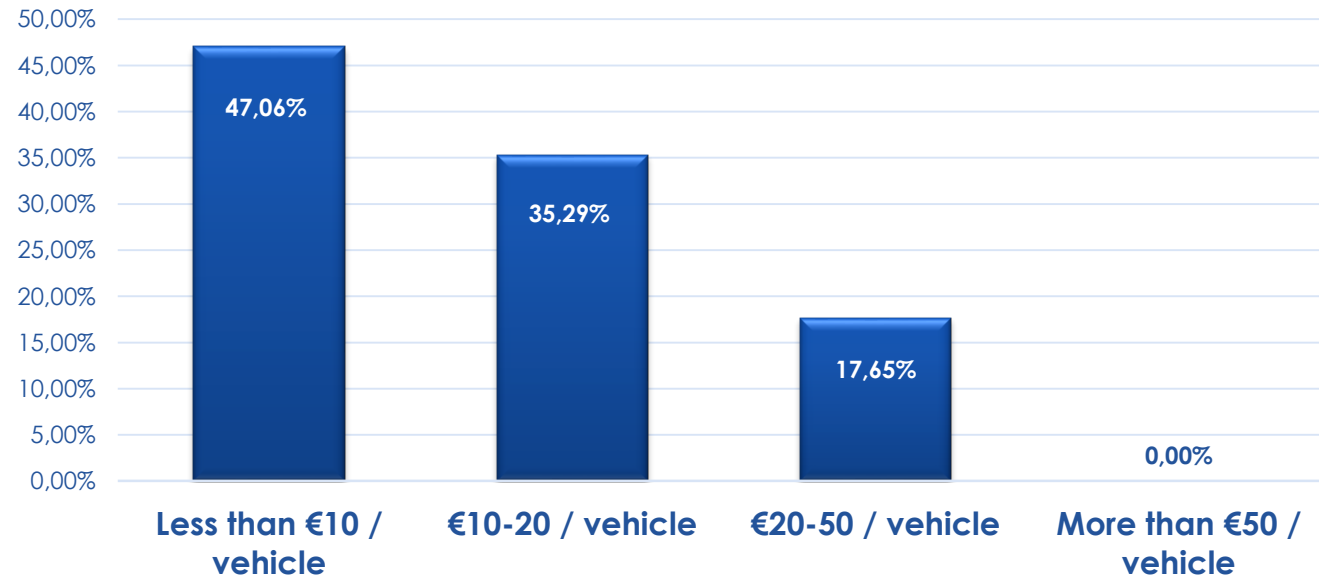
## Purpose:

- Autonomous and automatic driving looked at from OEM and LSP perspective – will it have an impact on FVL?
  - Identify benefits

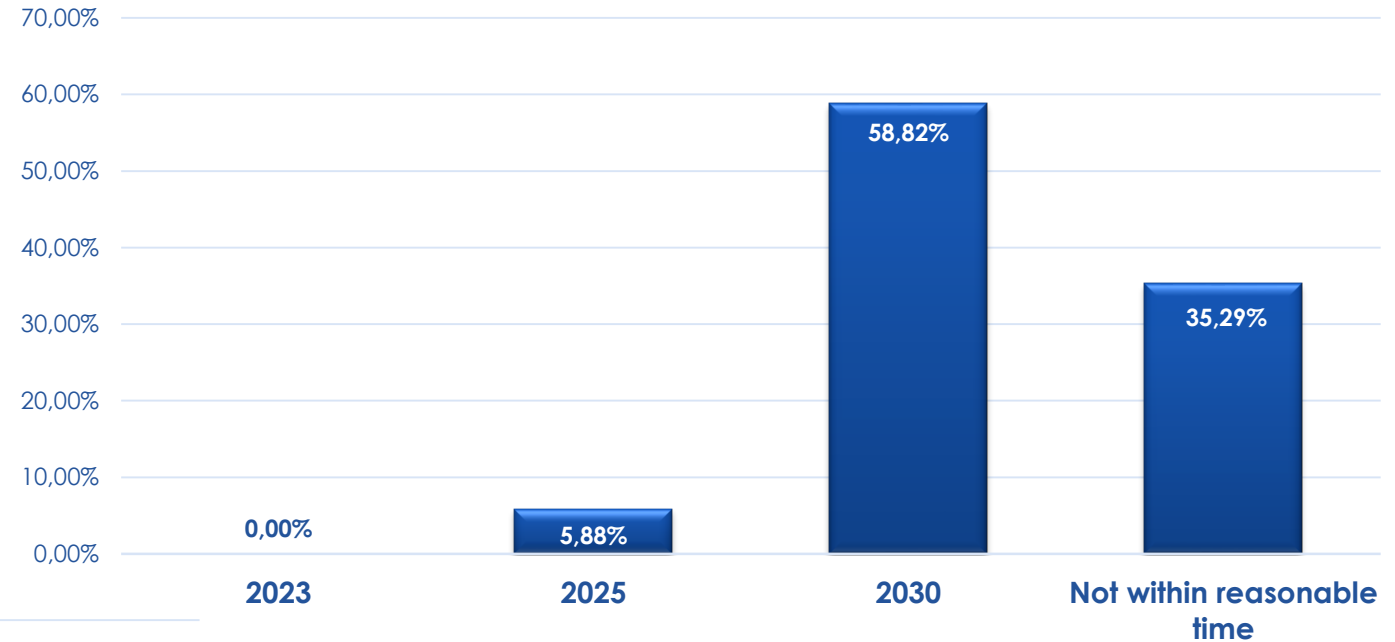


# Survey on autonomous Vehicles

How would you estimate the savings by driverless motion of vehicles that could be achieved within your organization within 3-5 years?



When will more than 80% of all new vehicles be able to drive completely autonomous (driverless, Level 5)?



Survey in March/April 2020  
17 replies:  
• OEMs: 7  
• LSPs: 9

# Autonomous Vehicles

- Conclusion of the webinar of 22 April:
- As the technology is not expected at compounds before 2030, the group might be too early:
  1. One proposal is to put it on hold for now
  2. Other proposal is to look into legislations that affect this domain and into the question of liabilities
- The DWG steering group will decide on next steps



# Close-range vehicle identification

TRUCK



SHIP



COMPOUND



RAIL



BARGE



# Close-range vehicle identification

- Sub-group established in 2018
- Co-chairs:
  - Katia Makarycheva (PSA Groupe)
  - Niek Provoost (ICO Terminals)
- Bi-monthly calls
- Purpose to publish a recommendation on a standard VIN label (location & content & technology)







# Recommendation

- The sub-group has almost finalised the recommendation:
  - It contains the proposed label **content**, format/technology and position
  - It compares a simple label (**barcode**) and smart label (**passive RFID**)
  - The **tests** of both technologies are described
  - **Cost** estimation for installation is included
- Plan was to publish final report by the General Assembly, but due to the COVID-19 crisis this was impossible to realise
- Finalisation of the recommendation as soon as possible



# Identification of Alternative Fuel Vehicles

TRUCK



SHIP



COMPOUND



RAIL



BARGE



# Identification of AFVs

- Sub-group created with members of Close-range vehicle identification group and Quality WG members
- Interest in a recommendation for a label for Alternative Fuel Vehicles (AFVs) – *such labels are not yet standardised*
- Visual identification for:
  - Safety reasons (e.g. in case of fire)
  - Logistics reasons (some vehicles might need special handling requirements)
- Chair: Katia Makarycheva (PSA Groupe)



# Identification of AFVs

- Coloured labels proposed for:
  - Electric vehicles
  - Hybrid vehicles
  - Hydrogen vehicles
  - LPG, CNG & LNG vehicles
  - Fossil fuel vehicles
- Labels on the windscreen
- The group has started working on a recommendation
- Work continues in 2020



# Connectivity audit of logistics sites



# Connectivity audit of logistics sites

- **Perspective:** Vehicle connectivity will be used to improve logistics operations in the next few years and will require reliable connectivity on each logistics site
- **Purpose:** to align connectivity audits on logistics sites and propose an industry standard to cut costs and maximize efficiency
- Renault-Nissan-Mitsubishi initiative but taken up by ECG



# Connectivity audit of logistics sites

- Renault-Nissan-Mitsubishi have developed connectivity audit requirements
- These audits are useful for connected operational tools (**smartphones, tablets**) as well as for **connected cars**
- Audit tested with Port Nantes Saint-Nazaire in May 2019
- Endorsed and tested by PSA Groupe too!



# Connectivity audit of logistics sites

- ECG will now promote these specifications
- Persuading OEMs/LSPs to adopt these requirements as an industry standard will create significant efficiencies

## Connectivity Measurement Protocol on Logistics Sites

VERSION 1, MAY 2020





# e-Gate

TRUCK



SHIP



COMPOUND



RAIL



BARGE



# e-gate

- e-gate = an independent online **communication** interface for LSP/OEM compounds and logistics companies for optimization of truck arrival slot distribution
- It focuses on the **time slot booking** and not on actual gate IN and gate OUT functionalities
- The brief on e-gate and time slotting applications was drafted
- Contains message scenarios between OEM, truck LSP and Compound LSP



# Latest developments

- The brief was circulated among IT companies to receive their product description
  - The group wanted to vet them against a set of transparent criteria
  - Only limited response received
- ECG then published the briefing document
- Final recommendations:
  - e-Gate system will reduce costs and speed up processes
  - Companies should search for appropriate applications that suit their needs

## e-Gate & Time slotting of trucks at compounds

APRIL 2020





# Updated DWG structure

